

User Manual for Super Power (Outdoor)

Translation in English

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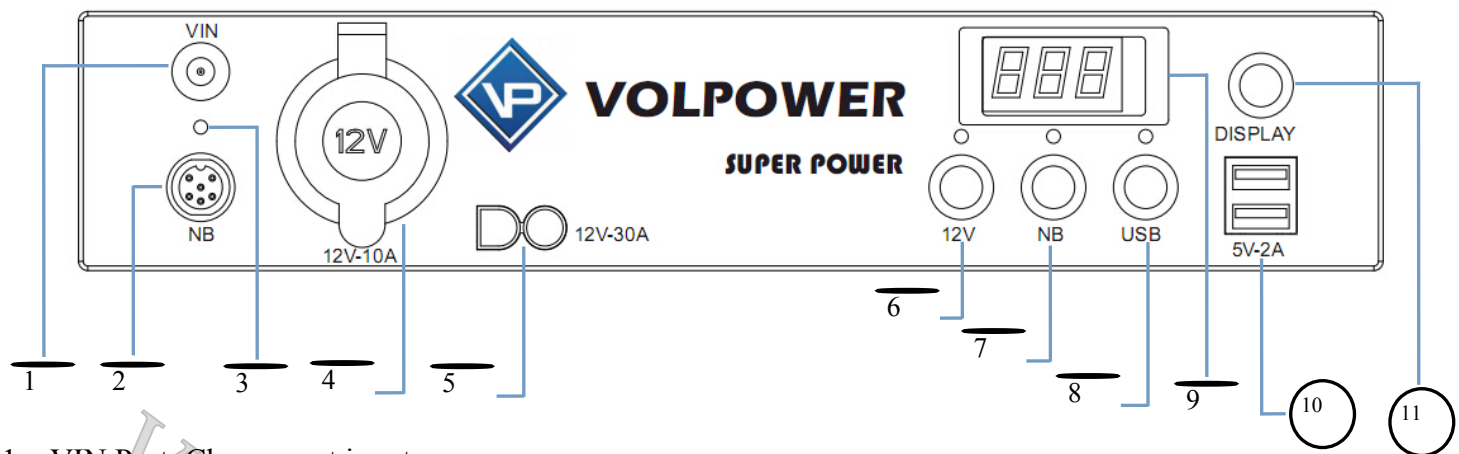
1. Overview

The product is designed and developed by Shenzhen Volpower Technology Co., Ltd. It is a backup super power supply ideal for DC powered products such as intelligent mobile phones, hand-held digital products, notebook computers, model aircraft equipment, etc., With its unique function of auto ignition and charging along with super-strong water resistance, you can enjoy comfort from nature in carefree way. The product has advantages like large volume capacity, fast charging, high conversion efficiency, attractive appearance and safe performance and so on. It is an essential and ideal companion at home and during outdoor travel. The product has two versions, the home and the outdoor version, which are convenient for you to choose the one you want/for your choosing.

2. Product Specification

Product Model	VP-08B
Product Power	380WH
Product Dimensions	283*200*55 (MM)
Product Weight (NET)	About 5.7KG
Grade of Waterproof	IP67
Cell Type	ICR18650 Lithium Battery
Standard Charge Current	2500mA
Maximum Charging Current	3000mA
Minimum Charging Voltage	14V
Maximum Charging Voltage	19V
Charge Mode	CC—CV (constant current/voltage charge)
Allowable maximum Continuous Discharge Current	30A
Charging Temperature Range	0°C ~+45°C
Discharge Temperature Range	-10°C ~+60°C
Storage Temperature Range	0°C ~45°C, within 30 days
Lon-term Storage Temperature Range	0°C ~40°C, 180 days
Storage Humidity	45% ~85%RH

3. Functional Description



- 1 VIN Port: Charge port input;
- 2 NB Port: Power output of notebook computer;
- 3 LED lamp: red LED lamp would be on during charging while the green one would be normally on after charging.
- 4 12V-10A Port: vehicle power output interface (cigar lighter is prohibited);
- 5 12V-30A Port: Output interface of model airplane; vehicle starting ignition output interface;
- 6 12V key: vehicle charging interface and model airplane interface output control;
- 7 NB key: Port output control for notebook computer;
- 8 USB key: USB port output control;
- 9 Electronic display.
- 10 5V-2A port: 5V-2A power supply output port;
- 11 DISPLAY key: Display switchover key.
 - <1> If a decimal point is indicated, it means the current voltage (for instance, 11.5 means 11.5V).
 - <2> If a digit without decimal point is indicated, it means the percentage of current remaining capacity (for instance, 85 means 85%).

4. Charge

Both the vehicle charging wires equipped with the product and the power adaptor sent along with the product can be used for charging. Red charging LED light would be during charging while green one would be normally on after charging.

5. Discharging (supply power for external equipment)

- (1) USB power supply: After USB wire being connected to the equipment and the one to be charged (such as mobile phone), press USB key, USB key LED would be on and power is to be supplied to the one to be charged (such as mobile phone).
- (2) NB (Notebook computer) power supply: Connect the equipment with computer by computer cable (Please select the appropriate connector according to computer model as different computer would have different computer plugs), press NB key, NB key LED would be on and power is supplied to the equipment To be charged (such as notebook computer).
- (3) Vehicle charge power supply: Connect the equipment with vehicle charge equipment (such as vehicle 12V refrigerator) by vehicle charging cable, press 12V key, 12V key LED would be on and power is supplied to the equipment to be charged (such as 12V refrigerator).
- (4) Model airplane power supply: Connect power source with model airplane equipment (such as model airplane) with model airplane cable, press 12V key, 12V key LED would be on and power is supplied to the equipment to be charged (such as model airplane).

(5) Vehicle ignition: When vehicle battery is lack of power or fails to provide power for vehicle starting, connect power source with vehicle battery with vehicle ignition cable (red clamp for battery positive pole and the black one for the negative pole), press 12V key, 12V key LED would be on and power is supplied to the battery for vehicle ignition. (NOTE: Vehicle cannot be normally started unless the equipment maintains the voltage above 11.6V).

(6) When the equipment has too low load current, equipment would turn off output 10-25s later.

6. Displaying electric quantity, voltage and current on display screen

Display screen would provide display of voltage and remaining electricity percentage in turn after DISPLAY key is pressed.

7. Description of abnormal codes

Abnormal codes of battery: when the battery is abnormal, the output shall be cut off actively, and the abnormal codes shall be displayed.

Abnormal codes:

- (1) _01 output short circuit or overcurrent;
- (2) _02 charge overcurrent;
- (3) _03 overvoltage protection;
- (4) _04 undervoltage protection;
- (5) _05 overtemperature protection;

8. Notes

- (1) Equipment power supply should be protected from deformation, decomposition or short-circuit as improper use of power supply would cause heating, fire or explosion.
- (2) Never store or use (Please refer to product specification when using temperature range) equipment power supply in an environment with high humidity.
- (3) Never put equipment power supply in microwave oven or pressure cooker.
- (4) Never put equipment power supply in fire.
- (5) Never violently bump or throw the equipment power supply.
- (6) Never put equipment power supply under high temperature or strong sunshine as it will cause heating, fire or explosion, and both the function and service life of power supply will be degraded.
- (7) Never connect or short circuit the different output/input pins with metal or other conductors.
- (8) Equipment power supply cells are formed by the reaction of various chemical components therefore the power supply would subject to decreased capacity over times and should be scrapped after a long time of use.
- (9) Child are not allowable to use product in an unattended state.

9. Packing List

- (1) VP-08A super power * 1 set;
- (2) USB patch cord *2 sets;
- (3) Power connecting line for notebook computer +Notebook computer power adaptor *1 set;
- (4) Vehicle charging cable *1 set;
- (5) Product Manual *1

(6) Product Quality Warranty Card *1

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